



Application  
Number

Submit

---

**IDS Flag Clearance for Application 10519143**

---

**IDS  
Information**

Content	Mailroom Date	Entry Number	IDS Review	Last Modified	Reviewer
M844	2006-02-03	18	Y <input checked="" type="checkbox"/>	2006-09-26 14:05:49.0	TFetzner
Update					

## WEST Search History





DATE: Tuesday, September 26, 2006

Hide?	<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>
		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L67	L66 and ((slid\$4 or rotary) with (switch\$4))	2
<input type="checkbox"/>	L66	L65 and (mercury or "Hg")	14
<input type="checkbox"/>	L65	L64 and (rhodium or "rh")	204
<input type="checkbox"/>	L64	L63 and (silver or "Ag")	807
<input type="checkbox"/>	L63	L62 and (gold or "Au")	1494
<input type="checkbox"/>	L62	L61 and (copper or "cu")	2476
<input type="checkbox"/>	L61	(contact with electrical with plating)	3746
<input type="checkbox"/>	L60	L56 and (Rubidium or "RB")	8
<input type="checkbox"/>	L59	L58 and (Rubidium or "RB")	1
<input type="checkbox"/>	L58	L57 and (mercury or "Hg")	6
<input type="checkbox"/>	L57	L56 and (rhodium or "rh")	28
<input type="checkbox"/>	L56	L55 and (silver or "Ag")	153
<input type="checkbox"/>	L55	L54 and (copper or "cu")	311
<input type="checkbox"/>	L54	L53 and ((slid\$4 or rotary) with (switch\$4))	784
<input type="checkbox"/>	L53	L52 and (gold or "Au")	37142
<input type="checkbox"/>	L52	((electrical\$2) with (contact or connect\$2) with (gold or silver or copper or metal or metallic\$4 or rhodium or "rh" or "Ag" or "Au" or mercury or "cu"))	145354
<input type="checkbox"/>	L51	L50 and (gold of "Au")	0
<input type="checkbox"/>	L50	L49 and (equivalent with series with resistan\$2)	33
<input type="checkbox"/>	L49	((semiconduct\$4 or semi-conduct\$4) with (contact or connection) same (coat\$4 or cover\$3) same (gold or silver or copper or metal or metallic\$4 or rhodium or "rh" or "Ag" or "Au" or mercury or "cu"))	13614
<input type="checkbox"/>	L48	L47 and ((series) same (switch\$4))	18
<input type="checkbox"/>	L47	fetzner	324
<input type="checkbox"/>	L46	L45 and ((series) same (switch\$4))	10
<input type="checkbox"/>	L45	L44 and (parallel)	16
<input type="checkbox"/>	L44	L43 and (series)	23
<input type="checkbox"/>	L43	L42 and ((contact\$4 or connect\$4 or link\$4 or bridg\$4) same (gold or silver or copper or metal or metallic\$4 or rhodium or "rh" or "Ag" or "Au" or mercury or "cu"))	24
<input type="checkbox"/>	L42	L37 and (gold or silver or copper or metal or metallic\$4 or rhodium or "rh" or "Ag" or "Au" or mercury or "cu")	49

<input type="checkbox"/>	L41	L40 and ((contact\$4 or connect\$4 or link\$4 or bridg\$4) same (gold or silver or copper or metal or metallic\$4 or rhodium or "rh" or "Ag" or "Au" or mercury or "cu"))	21
<input type="checkbox"/>	L40	L39 and (gold or silver or copper or metal or metallic\$4 or rhodium or "rh" or "Ag" or "Au" or mercury or "cu")	45
<input type="checkbox"/>	L39	L38 and (((coil or antenna or probe or winding or loop or ring or anulus or anular\$2) same (capacit\$4)) same (circuit\$4))	70
<input type="checkbox"/>	L38	L37 and (circuit\$4)	84
<input type="checkbox"/>	L37	L36 and L31	85
<input type="checkbox"/>	L36	L35 and ((toggle or toggl\$4 or movable or move or moved or moving or motion or alternat\$4 or change or changeable or changing or changed or varied or variable or oscillat\$4 or varying or rotat\$4 or nutat\$4 or flip\$4 or tip\$4 or twist\$4 or dial\$4 or rotary) same ((quiescent\$3 or inactiv\$3 or "off" or rest\$3) same (position or state or operat\$4 or mode)))	1225
<input type="checkbox"/>	L35	L34 and (disconnect\$4 or dis-connect\$4 or remov\$4 or eliminat\$4)	1630
<input type="checkbox"/>	L34	L20 and ((inserting or inserted or insertable or adding or added or add or includ\$3 or additional) with (switch\$4))	1983
<input type="checkbox"/>	L33	L32 and (gold or silver or copper or metal or metallic\$4 or rhodium or "rh" or "Ag" or "Au" or mercury or "cu")	4
<input type="checkbox"/>	L32	L31 and L29	7
<input type="checkbox"/>	L31	((((324/300  324/301  324/302  324/303  324/304  324/305  324/306  324/307  324/308  324/309  324/310  324/311  324/312  324/313  324/314  324/315  324/316  324/317  324/318  324/319  324/320  324/321  324/322).ccls.) or ((600/407  600/408  600/409  600/410  600/411  600/412  600/413  600/414  600/415  600/416  600/417  600/418  600/419  600/420  600/421  600/422  600/423  600/424  600/425  600/426  600/427  600/428  600/429  600/430  600/431  600/432  600/433  600/434  600/435).ccls.) or ((333/219  333/219.1  333/219.2  333/220  333/221  333/222  333/223  333/224  333/225  333/226  333/227  333/228  333/229  333/230  333/231  333/232  333/233  333/234  333/235).ccls.) or ((335/296  335/297  335/298  335/299  335/300  335/301  335/302  335/303  335/304  335/305  335/306).ccls.) or ((382/128  382/129  382/130  382/131).ccls.))	30166
<input type="checkbox"/>	L30	L29 and (lug)	6
<input type="checkbox"/>	L29	L28 and ((Multiple or "multi" or multipole or "multi-pole") same (switch\$4))	189
<input type="checkbox"/>	L28	L27 and ((toggle or toggl\$4 or movable or move or moved or moving or motion or alternat\$4 or change or changeable or changing or changed or varied or variable or oscillat\$4 or varying or rotat\$4 or nutat\$4 or flip\$4 or tip\$4 or twist\$4 or dial\$4 or rotary) same ((quiescent\$3 or inactiv\$3 or "off" or rest\$3) same (position or state or operat\$4 or mode)))	414
<input type="checkbox"/>	L27	L26 and (toggle or toggl\$4 or movable or move or moved or moving or motion or alternat\$4 or change or changeable or changing or changed or varied or variable or oscillat\$4 or varying or rotat\$4 or nutat\$4 or flip\$4 or tip\$4 or twist\$4 or dial\$4 or rotary)	489
<input type="checkbox"/>	L26	L24 and (((tiny or minescul\$2 or small or little or minor or bit) with (gap or space or hole or distance or area or region or zone or volume)) same (position or state or operat\$3 or mode))	489

<input type="checkbox"/>	L25	L24 and (((tiny or minescul\$4 or small or little or minor or bit) with (gap or space or hole or distance or area or region or zone or volume)) same (position or state or operat\$4 or mode))	489
<input type="checkbox"/>	L24	L20 and ((tiny or minescul\$4 or small or little or minor or bit) with (gap or space or hole or distance or area or region or zone or volume))	896
<input type="checkbox"/>	L23	L22 and (toggle or toggl\$4 or movable or move or moved or moving or motion or alternat\$4 or change or changeable or changing or changed or varied or variable or oscillat\$4 or varying or rotat\$4 or nutat\$4 or flip\$4 or tip\$4 or twist\$4 or dial\$4 or rotary)	451
<input type="checkbox"/>	L22	L21 and (gold or silver or copper or metal or metallic\$4 or rhodium or "rh" or "Ag" or "Au" or mercury or "cu")	451
<input type="checkbox"/>	L21	L20 and ((tiny or minescul\$4 or small or little or minor or bit) with (gap or space or hole or distance))	540
<input type="checkbox"/>	L20	L19 and ((switch\$4) same (contact\$4 or connect\$4 or link\$4 or bridg\$4))	2976
<input type="checkbox"/>	L19	L18 and ((coil or antenna or probe or winding or loop or ring or anulus or anular\$2) same (capacit\$4))	3710
<input type="checkbox"/>	L18	L17 and (capacit\$4)	7221
<input type="checkbox"/>	L17	L16 and (contact\$4 or connect\$4 or link\$4 or bridg\$4)	10957
<input type="checkbox"/>	L16	L15 and (coil or antenna or probe or winding or loop or ring or anulus or anular\$2)	11242
<input type="checkbox"/>	L15	L14 and (switch\$4)	13022
<input type="checkbox"/>	L14	L13 and (((nuclear or magnetic or electron) with (resonan\$2)) or NMR or MRI or ESR)	36777
<input type="checkbox"/>	L13	((quiescent\$3 or inactiv\$3 or "off" or rest\$3) same (position or state or operat\$4 or mode))	2761958
<input type="checkbox"/>	L12	((quiescent\$4 or inactiv\$4 or "off" or rest\$3) same (position or state or operat\$4 or mode))	2769538
<input type="checkbox"/>	L11	L10 and (quiescent\$4)	2
<input type="checkbox"/>	L10	L4 and (switch\$4)	178
<input type="checkbox"/>	L9	L8 and (switch\$4)	1
<input type="checkbox"/>	L8	L7 and (((nuclear or magnetic or electron) with (resonan\$2)) or NMR or MRI or ESR)	1
<input type="checkbox"/>	L7	L4 and ((equivalent same series same resistant) same (switch\$4))	85
<input type="checkbox"/>	L6	L5 and ((equivalent with series with resistant) same (switch\$4))	1
<input type="checkbox"/>	L5	(equivalent with series with resistant)	46
<input type="checkbox"/>	L4	(equivalent same series same resistant)	1641
<input type="checkbox"/>	L3	L1 and (equivalent same series same resistant)	25
<input type="checkbox"/>	L2	L1 and (equivalent with series with resistant)	1
<input type="checkbox"/>	L1	((nuclear or magnetic or electron) with (resonan\$2)) or NMR or ESR)	133801

END OF SEARCH HISTORY

# Hit List

[First Hit](#)[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

Search Results - Record(s) 1 through 2 of 2 returned.

☐ 1. Document ID: US 5792573 A

L67: Entry 1 of 2

File: USPT

Aug 11, 1998

US-PAT-NO: 5792573

DOCUMENT-IDENTIFIER: US 5792573 A

TITLE: Rechargeable battery adapted to be attached to orthopedic device

DATE-ISSUED: August 11, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pitzen; James F.	St. Paul	MN	55133-3427	
Smith; Jeffrey D.	St. Paul	MN	55133-3427	
Alexson; Charles E.	St. Paul	MN	55133-3427	

US-CL-CURRENT: 429/97; 429/98, 429/99

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Draw	Draw
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	------

☐ 2. Document ID: US 5553675 A

L67: Entry 2 of 2

File: USPT

Sep 10, 1996

US-PAT-NO: 5553675

DOCUMENT-IDENTIFIER: US 5553675 A

TITLE: Orthopedic surgical device

DATE-ISSUED: September 10, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pitzen; James F.	Maplewood	MN		
Smith; Jeffrey D.	Marine on St. Croix	MN		
Alexson; Charles E.	River Falls	WI		

US-CL-CURRENT: 173/217; 310/50

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Draw	Draw
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	------

[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

Term	Documents
ROTARY	1218941
ROTARIES	290
ROTARYS	7
SLID\$4	.0
SLID	387962
SLIDA	12832
SLIDAA	4
SLIDAAE	2
SLIDAAIY	1
SLIDAAL	6
SLIDAALE	89
(L66 AND ((SLID\$4 OR ROTARY) WITH (SWITCH\$4)) ).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	2

There are more results than shown above. [Click here to view the entire set.](#)

**Display Format:**

[Change Format](#)

[Previous Page](#)

[Next Page](#)

[Go to Doc#](#)

[First Hit](#) [Fwd Refs](#)[Previous Doc](#)[Next Doc](#)[Go to Doc#](#)

Generate Collection

Print

L58: Entry 2 of 6

File: USPT

Aug 11, 1998

DOCUMENT-IDENTIFIER: US 5792573 A

TITLE: Rechargeable battery adapted to be attached to orthopedic device

Detailed Description Text (18):

The battery terminals 39 may be constructed from any suitable material appropriate for use to construct orthopedic surgical tools. For example, the battery terminals may be constructed from copper, brass, bronze, beryllium copper, stainless steel, steel and aluminum. One or more platings may be present to enhance the electrical conducting and corrosion resisting properties of the battery terminals 39. Examples of such platings include, but are not limited to copper, nickel, gold, silver, tin, electroless nickel, rhodium, sulfamate, nickel, cadmium and zinc.

Detailed Description Text (27):

The cells 32 are enclosed in an autoclave proof (saturated steam @ 280 degrees Fahrenheit, @ 30 pounds per square inch, and vacuum @ 26 inches of mercury) housing or casing 31. The casing 31 preferably is designed to withstand other sterilization techniques and remain suitable to protect the battery cells 32. The casing 31 includes a poppet or umbrella valve 8 (e.g. the #VL2491-102 Vernay valve generally available from Vernay of Calif.) to relieve any pressure, such as pressure generated by the cells 32. Optionally, the battery housing 31 may include a power terminal (not shown) for a power cord so that the drive assembly 10 may be powered without discharging the cells 32.

Detailed Description Text (30):

The battery 30 shown in FIGS. 1-7, 9 and 10 comprises the battery housing or casing 31, and a pair of battery contacts 33, one of which is an electrically positive terminal, the other of which is an electrically negative terminal. The battery contacts 33 comprise thin, arcuate contact members. The arcuate contact members 33 are connected at one end to the housing 31 and are in electrical communication with the cells 32 (which are connected in series by electrically conductive strips). The other end of the contact members 33 is free to float along the top of the casing 31. Preferably, the contacts 33 are constructed from a flexible, resilient electrically conductive material, such as a material selected from the group comprising copper, brass, bronze, beryllium copper, nickel, stainless steel, aluminum or steel. Optionally, one or more materials may be plated to the contacts to enhance their performance and corrosion resistance. Plating materials include, but are not limited to gold, copper, nickel, silver, tin, electroless nickel rhodium, sulfamate nickel, cadmium and/or zinc. The shape of the arcuate contact/members 33 afford their resilient deflection in a direction substantially parallel to the axis H of the handle portion 6 of the housing upon abutment with the battery terminals 39.

Detailed Description Text (39):

The battery contacts 33A are constructed from a flexible, resilient, electrically conductive material. Any of the materials and platings mentioned above for use in constructing the battery contacts 33 may be used to construct the battery contacts 33A. Particular examples include beryllium copper, Brush Wellman alloy 25, 0.0159 (26 Ga) thick, 1/4 H temper, or equivalent UNS No. C17200, (ASTM temper TD01) heat treated 2 hours @ 600 degrees fahrenheit (ASTM TH01), R/C 38-43. As an example not intended to be limiting, the contacts 33A may have an overall height in FIG. 14 of

about 0.17 inches, a overall length (FIG. 13) of about 1.44 inches and an overall width of approximately 0.32 inches.

Detailed Description Text (51):

As a portion of the electrical circuit means mentioned above, the drive assembly 10 also includes a convenient rotary switch means, operated by ribbed member 72 on the proximal end 1 of the drive housing 4 opposite drive member 18, for causing the motor 12 to rotate the drive member 18 either in forward or reverse (clockwise or counterclockwise) directions, or to prevent any rotation by the motor 12 even when the trigger 40 is moved to its inner position. Indicia 73 indicate when the device is in the forward, reverse or stop modes.

[Previous Doc](#)

[Next Doc](#)

[Go to Doc#](#)



## Hit List

[First Hit](#)[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

Search Results - Record(s) 1 through 6 of 6 returned.

☐ 1. Document ID: US 20060091886 A1

L58: Entry 1 of 6

File: PGPB

May 4, 2006

PGPUB-DOCUMENT-NUMBER: 20060091886

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060091886 A1

TITLE: Low esr switch for nuclear resonance measurements

PUBLICATION-DATE: May 4, 2006

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Flexman; John Harold	Western Australia		<u>AU</u>
Aitken; Christopher Norman	Western Australia		<u>AU</u>

US-CL-CURRENT: 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	--------

☐ 2. Document ID: US 5792573 A

L58: Entry 2 of 6

File: USPT

Aug 11, 1998

US-PAT-NO: 5792573

DOCUMENT-IDENTIFIER: US 5792573 A

TITLE: Rechargeable battery adapted to be attached to orthopedic device

DATE-ISSUED: August 11, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pitzen; James F.	St. Paul	MN	55133-3427	
Smith; Jeffrey D.	St. Paul	MN	55133-3427	
Alexson; Charles E.	St. Paul	MN	55133-3427	

US-CL-CURRENT: 429/97; 429/98, 429/99

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	--------

☐ 3. Document ID: US 5553675 A

L58: Entry 3 of 6

File: USPT.

Sep 10, 1996

US-PAT-NO: 5553675

DOCUMENT-IDENTIFIER: US 5553675 A

TITLE: Orthopedic surgical device

DATE-ISSUED: September 10, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pitzen; James F.	Maplewood	MN		
Smith; Jeffrey D.	Marine on St. Croix	MN		
Alexson; Charles E.	River Falls	WI		

US-CL-CURRENT: 173/217; 310/50

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	EMC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	-----	--------

☐ 4. Document ID: US 4748761 A

L58: Entry 4 of 6

File: USPT

Jun 7, 1988

US-PAT-NO: 4748761

DOCUMENT-IDENTIFIER: US 4748761 A

TITLE: Fishing float

DATE-ISSUED: June 7, 1988

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Machovina; William J.	Strongsville	OH	44136	

US-CL-CURRENT: 43/17; 43/17.5

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	EMC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	-----	--------

☐ 5. Document ID: US 2658946 A

L58: Entry 5 of 6

File: USOC

Nov 10, 1953

US-PAT-NO: 2658946

DOCUMENT-IDENTIFIER: US 2658946 A

TITLE: Code keying system

DATE-ISSUED: November 10, 1953

INVENTOR-NAME: JOHN KAYE

US-CL-CURRENT: 178/82A; 178/17R

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	DOC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	--------	-----	--------

☐ 6. Document ID: US 1780148 A

L58: Entry 6 of 6

File: USOC

Oct 28, 1930

US-PAT-NO: 1780148

DOCUMENT-IDENTIFIER: US 1780148 A

TITLE: Method of and apparatus for control of train movements

DATE-ISSUED: October 28, 1930

INVENTOR-NAME: SPRAGUE FRANK J

US-CL-CURRENT: 246/63A; 200/8R, 246/182R, 246/183, 246/190

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	DOC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	--------	-----	--------

Clear

Generate Collection

Print

Fwd Refs

Bkwd Refs

Generate OACS

Term	Documents
MERCURY	211333
MERCURIES	45
MERCURYS	16
HG	144948
HGS	7043
(57 AND (HG OR MERCURY)) . PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD.	6
(L57 AND (MERCURY OR "HG") ) . PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD.	6

Display Format: -

Change Format

[Previous Page](#)[Next Page](#)[Go to Doc#](#)